# THE RARS -EXCITER-

RALEIGH AMATEUR RADIO SOCIETY
RARS
WORLDWIDE FRIENDSHIP

CLUB CALL: W4DW

REPEATER: W4DW/R 146.04/64

FEBRUARY, 1985

ISSUE 179


# RARS HOSTS FCC'S JERRY FREEMAN

The Raleigh Amateur Radio Society was privileded last Wednesday to have Jerry Freeman, W4JJ, Engineer in Charge-District 5, of the Federal Communications Commission, as guest speaker at an unscheduled meeting.

Jerry and three members of his staff, Dan Emmrick, Asst. Engineer in Charge; Laurie McArthur, Staff Engineer; and our old friend, Colleen McNeely had business in Raleigh and were kind enough to contact RARS and say they would be happy to meet with some of the members for dinner or coffee. President Bruce Eggers, WA9NEW said this was too important an occasion to limit to a few members and that every ham in the Raleigh area deserved the opportunity to meet with Jerry. A telephone committee went into action. The Cary club was contacted. Every repeater in the area carried the announcement as well as computer bulletin boards.

As a result, eighty plus local hams attended the meeting to hear Jerry speak. And it was a most worthwhile experience. Jerry is an entertaining speaker and had a wealth of information for us. He gave us all the new items from the FCC. He says a lot is happening and estimates that by 1990 there will be 600,000 amateurs.

The floor was opened to questions and every subject was discussed--from the VE program to the repeater moritorium, possible spectrum losses, violations, interference, Citizens' Band etc.---along with a few amusing stories.

I'm certain every amateur present was delighted to be able to rag-chew with Jerry and his staff. RARS appreciates your visit, Jerry--drop in anytime!

HAPPY

VALENTINES

DAY


EDITOR: ANN M. BRADLEY, WA4APK - 5207 DENISE DRIVE - RALEIGH, NC 27606 - (919) 851-2437

# LEADING EDGE

SHERMAN STARNES
W4TZU

If all the amateur radio satellites scheduled for launch over the next couple of years are successful, it will be one of the most exciting periods in amateur radio satellite history.

Latest indications are that the Soviet RS-9 spacecraft will go aloft in December of this year, possibly with a 15 to 10 meter transponder.

AMSAT recently signed a contract with the European Space Agency for the launch of Phase 3C aboard an ARIANE 4 rocket in June 1986. It will carry transponders similar to those on OSCAR 10, but the mode L transponder, (1269 mHz. up - 436 mHz. down), will likely have higher power output which will lower the transmit and receive requirements of ground stations. It will also probably carry a mode L digital transponder and a 2.3 gHz. beacon.

Aboard the same rocket will be another amateur radio satellite, named Arsene, built by the French equivalent of our ARRL. Little has been published concerning the equipment aboard this spacecraft.

The Japan Amateur Radio League, JARL, is developing a satellite in cooperation with the Japanese equivalent of NASA. It will carry a mode J transponder, (2 meters up - 435 mHz. down), and possibly a digital transponder of some kind. It will be boosted into orbit by a Japanese H-1 rocket in January 1986.

The Space Shuttle isn't exactly an amateur radio satellite, but a mission scheduled this spring will make it seem so.Plans aren't complete, but Dr. Tony England, WØORE, is sure to engage in more ham operation than did W5LFL. He plans to carry, in addition to the two-meter rig, a two-meter to ten-meter repeater and a slow-scan TV camera which will transmit on ten meters. He won't have all the fun, however. It was just recently revealed that John-David Bartoe, Payload Specialist for the same mission is N4NYZ so it will be a multi-operator affair. There are now five hams among the astronauts, one of them from Holland.

Battery failure has caused the demise of all ham satellites I can remember since OSCAR 2 and the Russian spacecraft are no different. RS-6 succumbed to an aging battery recently and now, according to Soviet sources, RS-5 is suffering from the same problem. They say RS-7 is in fair condition and RS-8 is very good. WB4UYT reports that when the RS-5 transponder is on it performs very well.

The British scientific satellites UO-9 and UO-11 continue to perform experiments and report the results to stations equipped to decode the telemetry. On Sundays listen for synthesized voice telemetry at 145.825 between 1530 and 1630 EST.

HOT NEWS! FLASH

RARS EXCITER WINS ARRL COMPETITION--------

As an early Christmas present, I received a letter from Gay Milius, W4UG. ARRL Director of the Roanoke Division, telling me that the exciter is a winner in the ARRL Newsletter Competition. There are four categories depending on size of club, volume of distribution of the newsletter, method of printing etc. The Exciter was judged winner in category 2B. The judge was Eugene Kern, W2BAK of Tenafly, N,J,, a retired executive of Voice of America. Gene read all the material and entered the scores and his ratings on his computer. The award will be presented to RARS at the Hamfest.

If this all sounds cool and editorial--don't believe it. I'm so tickled I could squeal. And I'm very proud. I'm proud of the EXCITER and of all the columnists and contributers who make it "go." I'm proud of the members who take time to help fold, staple and mutilate. I'm proud of the members who make the news that goes into the Exciter. I'm proud of the Raleigh Amateur Radio Society. Arent you??

Ann Bradley, WA4APK
Newsletter Editor

# MINUTES OF THE MEETING

The regular monthly meeting of the Raleigh Amateur Radio Society was held January 2, 1985, at the First Presbyterian Church, S. Salisbury Street. President Bruce Eggers, WA9NEW, called the meeting to order and welcomed the 32 members and 4 guests present.

Bruce, WA9NEW, reported that the 1985 membership drive is underway. Members are urged to renew their memberships in RARS. It was also noted that two dollars can be saved on ARRL renewal memberships made through the club.

Bruce noted that a reference to Dianne, WB4INM, in the Red Cross newsletter prompted an enquiry by Janet Dildine of the Wade Avenue J. C. Center. Janet is presently working with a cerebral palsy self help group that is studying electronic communications, and requested an amateur who would be willing to open their home to them for a demonstration. Bruce has agreed, on behalf of RARS, to find someone for them for January 10 from about 1:00 to 3:00 p.m. If no volunteers are found, the group will meet at the Wake Tech Club, but it is hoped that the group can see amateur radio in a home setting through the courtesy of one of our members. Members that would be available, and that would have a hamshack accessible by wheelchair, are encouraged to volunteer.

Bob, AA4L, reported on the RARS training programs. The novice class has ended, and KB4MEA, and KB4MEG were introduced as two persons from the class who had already received their tickets. Upgrade classes will start on Tuesday, January 22, 1985, at the McKimmon Center, 7-9 p.m. Those who have volunteered to be instructors are asked to be present for the first class. Also, Bob requested some sets of training materials be made available for the first class. Chuck, K4HF, agreed to see if materials might not be available from the ARRL on a consignment basis.

Bruce, WA9NEW, made a motion that the club purchase training materials for the instructors, up to $75. The motion was passed.

The classes will be available through the Adult Continuing Education program at the McKimmon Center.

Mike, WD4LXR, reported on the operation of the Christmas Message Booth at the Crabtree Valley Mall. In all, 105 messages were handled: 32 for North Carolina, 67 for other states, 5 for APO addresses, and 1 for Brazil.

Mike also asked the membership for suggestions for public service projects for the coming year.

Bruce, WA9NEW, reported on the action taken in behalf of Cliff Craig concerning line noise interference near Cliff's home. Bruce had written a letter and received action from CP&L, but as misfortune would have it, within three hours of supposedly fixing the interference it mysteriously reappeared. Cliff has written another letter to CP&L, and we hope to have the problem permanently solved soon.

Bruce related the story of a 15 or 16 year old blind boy, N1CBK, that

he had helped get into amateur radio. The boy has recently received his Extra Class license, and should serve as an inspiration to those club members who have not yet made it!

Jim, WA4AOO, reported on the RARS hamfest progress. There should be a consolidation of chairman positions this year due to the new location. Jim noted that there would be no flea market activity outside of the building, and the hospitality room will be on site.

Jim also reported that L. W. Davis Enterprises, Wake Forest, will have a liquidation sale Sunday, January 6, starting at 9:30 a.m. Members interested in picking up some bargains on electronic assemblies were encouraged to take note.

Bruce noted that the 1985 ARRL League Planning Meeting is being sponsored by RARS at the end of May. Arrangements will be made at the Ramada Inn South. Members are encouraged to participate.

Chuck, K4HF, announced the coming Richmond Frostfest will be held Sunday, January 13. It will be held indoors, and should be a good hamfest.

Chuck reminded the members that dues paid before the end of February entitle one to participate in a special prize drawing at the March Awards Banquet.

Chuck also noted that the next area FCC Amateur Exams will be held Jan. 19, 1985 in Fayetteville (Jan. 5 cutoff for preregistration), and Feb. 16 in Raleigh (Feb. 2 cutoff for preregistration).

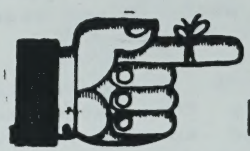
Murray, W6MVZ, reported that the recent amateur radio participation in State emergencies has prompted both the director of Ham Watch and the head of the Office of Emergency Management to write letters to the FCC supporting the federal preemption of local amateur radio amateur antenna zoning. Having this kind of support may be very helpful in our fight against restrictive local zoning practices.

Murray requested help in her job of providing programs for our meetings. Anyone with program ideas should contact her.

The program was turned over to Johnnie, WA9SZL, who instructed the members in the fine art of home brewing.

The meeting was adjourned to be followed with coffee and fellowship.

Roger Moates
Secretary, RARS



# DON'T FORGET...

REMINDER TO RARS MEMBERS----1985 Membership dues are now due and may be paid to the treasurer at the meeting or by mail in the SASE you received in your last issue. However you choose to pay, don't fail to do so don't fail to join or renew by the end of the February meeting in order to be eligible for that special drawing to be held at the Awards Banquet in March. At that time a new Roster and a new Newsletter Mailing list will be compiled. Don't get left out! Pay early--avoid the rush!

HAPPY VALENTINES DAY
FROM
THE NEWSLETTER STAFF

# ♦ LPM '85 ♦

or

"MY CHECK'S IN THE MAIL"

by wa9new

It's true. Ask Sherm. He's taking advance reservations. LPM'85 is off and running. This is the ARRL's Roanoke Division planning meeting. You approved RARS' hosting of this event and Chuck and I agreed to serve as a committee of two to work on it. (It was Chuck's unilateral decision to list me as General Chairman. That's typical. He does the work and gives somebody else the credit. You're on notice 'HF. I'll even the score.)

We last did this in 1982. I was very pleased, upon my return to RARS in late '81, to see that RARS was to host LPM '82. I had attended a number of these meetings in the early seventies when the Richmond club hosted a series of them, then called League Officials Meetings. This annual get-together has a proud tradition in this Division. While Vic may not have been the first director to hold such meetings, it is certain that Vic played a key role in developing this concept of a method by which the members can have a direct influence on League policy. And I'm pleased to report that Vic's leadership has been mimicked in other divisions.

As it has evolved, this annual meeting provides ALL AMATEURS with an avenue, an opportunity, to meet the League Officials within the Division and a representative from the Headquarters staff to air concerns, be updated on recent developments and activities, crossfeed and input ideas, practice the democracy that the League is. As Vic always said, YOU are the ARRL.

Now for some nitty-gritty. Hosting such an event costs money. With a bit of luck, it is self-sustaining. Host clubs should not be 'out-of-pocket'. Attendees should pay their way. The more attendees there are, the better the chance we'll at least break even. (Any surplus, which never happens, will go toward future meetings.)

If Amateur Radio is important to you, if you believe that the ARRL, our only national society, has any influence on the future of Amateur Radio (and if you don't believe that I'll give you a good price for reading your tea leaves, cards, stars or whatever else turns you on), then you owe it to yourself to attend.

Make a weekend vacation out of it. Attend the meetings on Saturday afternoon, pick-up your spouse or date for the dinner (we expect to have an entertaining evening, not a technical program), then retire to your room for whatever it is you might do to celebrate Mother's Day weekend. You catch the Sunday morning meetings while your partner gets a leisurely breakfast in bed, long soaking bath, time to read the WHOLE sunday paper undisturbed, and still get back to the 'real-world' Sunday afternoon. Now what could be finer. See you there?

## UPGRADE EXAMS COMING!

John Johnson, WM4P, and a hardy band of VE's will administer Tech through Extra exams on Saturday, February 16 in Kilgore Hall on the NCSU campus. Send a completed copy of FCC Form 610 (the new version, please. Check with Chuck.), a copy of your current license, a check for $4 made out to WCARS/VE and an SASE to:

Mr. John Johnson, WM4P
2118 Lyndhurst Drive
Raleigh, NC 27610

Do it now! For further info, call John at 834-5001 or 834-5568 or catch Billy, K4BWC, Walt, N4SW, or Joe, WM4F at the RARS meeting or on the air. But don't delay!

# 'NEW LINE

by Bruce Eggers, WA9NEW
President, RARS

RARS REPS TO ARES

Wake County's Emergency Coordinator has published his quarterly update of the ARES Call-Up list. There are 52 names on it. That's about 1 of every 15 hams in the county. Of these, about a dozen are RARS members. That's about 1 out of every 7. Now I'm sure a much higher percentage will lend a hand when something REALLY BIG happens. But I wonder how ready the average ham is, taking part in only the REALLY BIG emergencies. We were visited with both a major tornado outbreak and a full-blown (no pun intended) hurricane during 1984. I certainly hope it'll be quite some few years before either of these kinds of REALLY BIG emergencies visits again. And I certainly hope we'll all be prepared when it happens.

HAM WATCH

Ham Watch is only one small part of the total public service role played by Amateur Radio. But it's an important role. It's highly visible; it gains the attention of government officials; it's recognizeable to the general public. Reed reports that the first (we hope it's just the first) order for the Ham Watch plates has gone in and we can expect delivery within a few weeks. I've got two coming. I'm only driving one car these days but I wanted a spare. It'll go in the back window of the rentals I use, it'll be there if I ever lose the first one, and I'll have it for a second car if I ever get back in that mode. And besides, when I placed the order I kind of figured it'd be the only chance I'd have to get such a plate. Only about one of every 15 hams in the state ordered one. (And if everybody odered two like I did, the participation rate drops to 1 of every 30!) I wonder if, once they start appearing, there'll be enough demand to make a second production run. Sure would be nice!

# P.S. as in public service

by Mike Lushene, WD4LXR

CHRISTMAS MESSAGE BOOTH

The Christmas message booth at Crabtree Valley Mall for 1984 is now a thing of the past. If you were unable to participate--don't fret, we still have several openings for Christmas 1985.

The message booth was manned (or womanned) by Ann Bradley, WA4APK; Jim Bradley, WA4AOO; Bert Bailey, W4FMN; Tim Buehlman, N4IQA; Bob Corns, K4MC; Ray Craig, N4kXV; Bruce Eggers, WA9NEW; Joe Forgeng, KB4MEG; Murray Hake, W6MVZ; Mike Lushene, WD4LXR; Rollin Ransom, NF4P; and Walter Van Eieson, KB4LWD. Students from the Wake Technical College Amateur Radio Club, WB4TOP, assisted in generating messages from the shoppers.

The message center produced a total of 105 messages of which 32 were destined for cities within North Carolina, 67 for the remainder of the U.S., 5 for overseas destinations via APO or FPO addresses and 1 for Brazil.

In addition to the 2 meter operations, Tim Buehlman, N4IQA, set up an IBM PC programmed to allow the public to generate their greetings by computer. Copies of their messages were prepared for a momento of their participation at the message booth as well as the Club's copy.

New posters were also prepared which aided in the success of the message center.

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## JOHN KANODE, N4MM WINNER OF THE 1984 ARRL ROANOKE DIVISION SPECIAL SERVICE AWARD

John C. Kanode, N4MM, from Boyce, Virginia has been awarded the prestigious ARRL Roanoke Division Special Service Award for 1984. This award is given to one amateur in the Roanoke Division each year for outstanding service to Amateur Radio spanning many years.

John, an Extra class licensee who has been active in Amateur Radio for 33 years, has been involved in many phases of Amateur Radio. He is presently a National Director of QCWA, ARRL Vice Director, ARRL Board DXAC Liaison and has served on several ARRL committees. He is a life member of ARRL, QCWA, AMSAT and IARC and has been president of several well known Amateur Radio clubs. He is active on all bands from 160 to 2 Meters and holds over 400 "on the air" operating achievement awards.

The ARRL Roanoke Division Special Service Award was created by past ARRL President Vic Clark, W4KFC and the candidates are selected by the previous winners of the award. The award plaque will be presented to N4MM at the famous OLD TIMERS DINNER in Gaithersburg, Md. on March 23, 1985 by Director Gay Milius, Jr., W4UG

**********

GET WELL! GET WELL! PLEASE GET WELL!!

Too many of our members have been in the hospital recently. Bob Corns, K4MC was just released today. Bob Owens has recently had by-pass surgery. Al Nowakowski, w4VP is still in serious condition following heart surgery. RARS wishes that you all will get well soon and the rest of you members, stay well!


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# HAMFEST FYEE

by Jim Bradley, WA4AOO

IT'S THAT TIME OF YEAR AGAIN !

Hamfest time is near and preparations are under way. Have you volunteered yet for the position of your choice? We have a few left.Various chairmen are now busily cornering members for their committees, so we will have enough people willing to take their part in putting on the Hamfest.

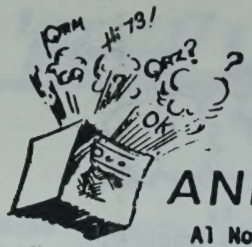
As you know we're moving indoors this year, to the Jim Graham Building at the Fairgrounds. This new location is bigger, better, but may present new and different problems in getting the job done, and chairmen will need plenty of support

Chairmen thus far are:

| | |
|---|---|
| Tickets | Allen Plaks, KA4NSA |
| Parking | Roger Moates, W3EZR |
| Talk-in | Jim Peeler, WA4YOM |
| Hospitality | ????? |
| Go-fer | Rollin Ransom, NF4P |
| Homebrew | Johnny Mayfield, WA9SZL |
| CW Cont. | Bert Bailey, W4FMN |
| ARRL | Chuck Littlewood, K4HF |
| Club Table | ???? |
| Vendor letter | Jeff Parker, WA1WXL |
| Pre-registration | Murray Hake, W6MVZ |

I'd like to thank Chuck for all his hard work on the new flyer. It's really good-looking and plenty informative. Yes, it contains a pre-registration form this year. We're hoping it may cut down traffic at the ticket booths. A group has been working on the vendor letter which should soon be ready for mailing.

The Hamfest put on by RARS is one of the ways we have the money for the necessary club expenses so get on the band wagon. Many are already signed up and will be on hand for their "tour of duty" Thanks, many thanks to them. For the rest of you guys and gals, there is work to be done.




# SIGNALS AND NOISE

Al Nowakowski, W4VP

Let's talk about picking a home computer.

Price is obviously going to play a significant role in your selection of a home computer. Unfortunately, there are few choices left at the low end of the price scale, and there is some question about about each of those.

The Commodore 64 is probably the most popular machine around, but the newer PLUS 4 and 16 have received a cool reception. The Atari 800XL is a real buy at the moment, selling in some stores for $100. The Tandy Color Computer has also seen significant price cuts recently.

But frankly, there are reasons to be cautious about picking any of these. Rumors are circulating that newer, more powerful machines may be just over the horizon.

Moving upscale, it's quite a jump to the Apple IIe or the PCjr. But both are popular, versatile machines that are likely to be around for a while.

If you can make the quantum leap up to the Apple IIc or the IBM PC and its compatibles, you probably ought to spend a lot of time deciding what your requirements are before laying down your bucks.

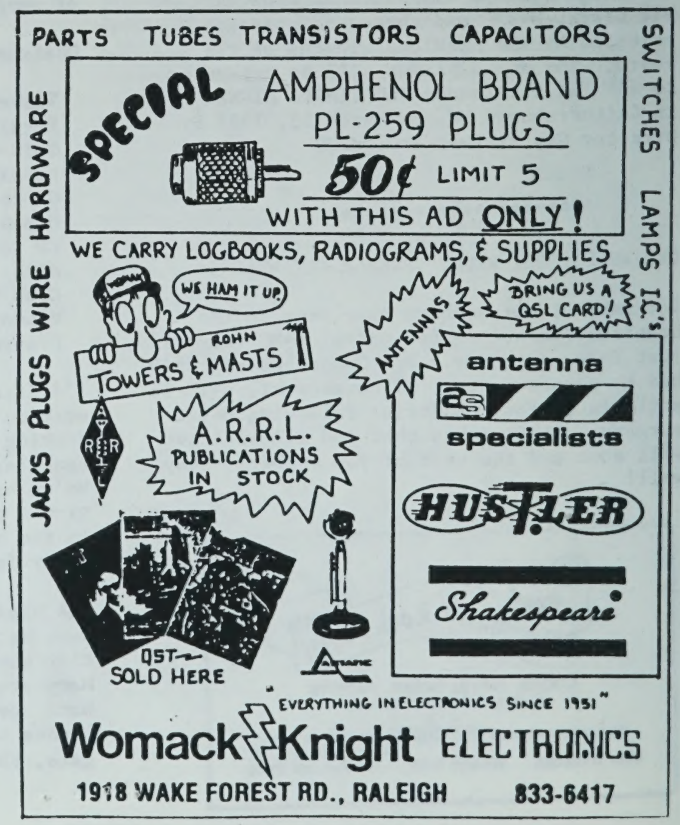
In any event, there are several factors you should bear in mind while making a decision. These are: availability, expandability, and serviceability.

Availability means checking to see if there are independent peripheral suppliers. Also, is there a reasonable amount of software you feel you might use available, and just as important, is new software being developed?

Expandability means verifying that you can add all those peripherals you might later want, and without having to sell your firstborn to do it. You might feel you'll never need two disk drives, but next year that could change.

Service is at best an 'iffy' proposition with home computers. If you're the type of person who never takes his computer apart because it might void the warranty, by all means investigate the service available for your choice of machines.

So much for the bad news. The good news is that the next generation of home computers will undoubtedly be more powerful, and prices will come down. Rumors of sophisticated graphics capability and expanded memory circulate throughout the media, but don't let that hold you back. The present crop of machines are capable of amazing things. Come join the fun!

## Tar-Heel Novice Tapes
(From New Jersey ?)

It's in the New Products column in the February issue of Worldradio. For $39.50 plus $2.50 shipping/handling you get five 60-minute cassette tapes ". . . designed and developed by an easy-going resident of the Tar-Heel State of North Carolina...". But your check is not made out out to any "easy-going resident of the Tar-Heel State", it's to be made out to Vince Luciani, K2VJ (the callbook lists him as an Extra from Egg Harbor, NJ); your order is placed through "Cologne Press" in Cologne, NJ; and you can save the $2.50 shipping/handling charge if you also order Vinny's 'Subliminal Code Learning' tape. Understand, this tape "...does NOT use hypnosis or meditation." (Whew! I was afraid they'd hypnotize me and I'd do a strange thing with a chicken.) "On one side...Vince...announces the entire code alphabet COMPLETE (emphasis added) with the dits and dahs for each letter." (Yeah. I need dat.) "BUT (emphasis added) you won't hear any of it. (Then why the H--- should I buy it, Vinny?) "...what you hear will be beautiful, relaxing, new-age music. The code, you see, is subliminal for only your subconscious mind to "hear" and learn." (Have you ever heard anything that could be called 'new-age music' that was in any way synonymous with 'beautiful' or 'relaxing'? But I can dig that subconscious learning bit. Back in the early days, before I knew better, I entered a few contests and I'm here to tell you that long before the contests were over, I was usually running on the subconscious. This could be great!)

And in order to save the $2.50 on the 'TNT' tapes, you spend $10.95 plus $1.50 shipping/handling, made payable to 'Vinny', for this subliminal tape!

Now I hope I didn't sound too negative, too skeptical. After all, I've been around the block once or twice and I've heard about what they do to people who don't toe the line up in New Jersey! So hey, Vinny, all in fun, OK? . . . OK? Vinny, Baby, I was just havin' some fun! OK? Huh? . . .

Now, let's get serious. I don't have anything against Worldradio. I'm a lifetime subscriber. (But I'm darn glad I never fell for the same kind of a one-time-good-deal from a certain fellow up in New Hampshire!) But I'm glad there's one publisher who checks out all merchandise advertised in their publication and that publisher is the ARRL, publisher of QST. And I'm here to tell you I'm going to be very surprised if I ever see Vinny's Subliminal Code Tape in their pages. But given the money back guarantee K2VJ is advertising, you just may see more on this product in the pages of the RARS Exciter! Stay tuned.

wa9new

# Awards Banquet

Traditionally, RARS holds its Annual Awards Banquet on the regular meeting night in March at the North Carolina Faculty Club. The details are not yet firm, but it's not too soon to be thinking about it and making your plans. It's the RARS event of the year that all members look forward to. Good food, refreshments, fellowship--entertainment or an interesting speaker.

There will probably be a sign-up sheet at the next meeting, or you may call one of the club officers to make reservations. If we don't hear from you, you will most likely be telephoned. It is important that we have an accurate head count. RARS doesn't like to pay for a lot of dinners that go begging. So make your plans now--make a date with the spouse or special friend. RARS can guarantee you a most enjoyable evening!

INVENTING STANDARD TIME
continued

Allegheny Observatory

Probably the most widely publicized time service in the late 19th century was that of the Allegheny Observatory near Pittsburgh, Pennsylvania. Samuel P. Langley, one of his era's most respected scientist and eventually Secretary of the Smithsonian Institution, was the director of the Allegheny Observatory from 1867 to 1891. He devised the time service as a source of income for his financially pressed institution. While Langely's time service was not the first in the United States, it was the first to turn a considerable profit. During his administration, the service earned more than $60,000. Other observatories soon followed Allegheny's example and began charging for distributing time.

Langley saw in his time service the means for establishing a national standard time. An early advocate of time reform, he wrote in 1870:

The evident tendency, in thus sending the time from one standard over so large an extent of territory, is to diminish the number of local times, and so prepare the way for a future system, in which at least between the Atlantic and the Mississippi, they shall disappear altogether....The labors of this and of other American Observatories are tending to the same end, that of the ultimate adoption of a single time for all the country east of the Mississippi, by which not only the railroads, but the cities and the public generally, will regulate themselves. What point shall be chosen is of less importance than that some one shall be used universally.

The Pennsylvania Railroad and its many subsidiaries were the most influential customers of the Allegheny Observatory's time service. In 1870 the Pennsylvania system extended some 2,5000 miles and had 300 telegraph offices receiving time signals; eventually about 8,000 miles of railway ran to the ticking of the Allegheny Observatory's clock.

The Pennsylvania Railroad was probably the first major railway to govern timekeeping along its lines systematically. The company bought reliable watches for its emplyees and accurate clocks for its telegraph offices and terminals. All of the company's timepieces were than synchronized with time signals from the Allegheny Observatory.

to be continued .....

# THE RALEIGH AMATEUR RADIO SOCIETY'S

(RARS)

## 13TH ANNUAL ARRL

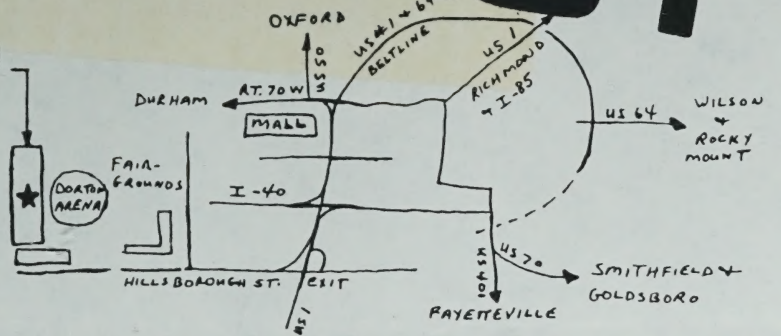
# HAMFEST

MOVES INDOORS - 110,000 SQ. FT.

**APRIL 14, 1985**

★ **NEW LOCATION**

Jim Graham Building
N.C. State Fairgrounds
Hillsborough Street
**RALEIGH, N.C.**
Hours: 8 AM-4 PM
Main Drawing: 3 PM




★ **PRIZES**
1st - Choice IC 745 HF or IC 271 VHF Tranceiver w/internal power supply
2nd - Kenwood TR2600 2 meter Handheld
3rd - Telex Hy-Gain HAM IV Ant. rotor

★ **REGISTRATION & FLEA MARKET**
Pre-registration ($5.00 at door) - $3.50
1 Fleamaket space, table, 2 chairs - $5.00 Our tables and chairs only - all activities under one roof - No outside facilities available - 24 hr. security -Vendor set-up Saturday 4-10 pm; Sunday 6 am -Vehicles must vacate the building by 8 am. Bring your own hand cart.

★ **HAMFEST SOCIAL SATURDAY NIGHT**
A welcoming party will be held 7-10 pm for all in the large meeting room inside the Hamfest building. Eats, drinks and door prizes for those present.

★ **SPECIAL INTEREST MEETINGS**
Q.C.W.A., M.A.R.S., ARRL-NTS and others will be here; times to be announced; First come, first served; for meeting spaces, write RARS.

★ **COMPUTER ENTHUSIASTS AND DEALERS WELCOME!**

★ **AMATEUR FCC EXAMS**
By pre-registration only - cutoff April 8
Send your completed FCC Form 610 with a copy of your current license and a check or money order for $4.00 payable to W.C.A.R.S./V.E.C. to:
Mr. John Johnson, WM4P
2118 Lyndhurst Drive
Raleigh, NC 27610

★ Write him for further info. This exam will begin at 8am Sunday at Kilgore Hall, NCSU Campus, approx. 2 mi. east of the fairgrounds on Hillsborough St. at Brooks Ave. Talk-in stations will assist.

**CW AND HOME BREW CONTESTS**

★ **TALK IN SATURDAY AND SUNDAY**
W4DW (146.04/146.64)
K4ITL (146.28/146.88)

★ **FULL LINE FOOD SERVICE IN BUILDING SUNDAY**
VENDOR INFO: Rollin Ransom, NF4P
(919) 779-5021

GENERAL INFO: RARS Hamfest
PO Box 17124
Raleigh, NC 27619

RALEIGH AMATEUR RADIO SOCIETY, INC.
P. O. BOX 17124
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UPGRADE
EXAMS
FEB
16

**RARS meets each first Wednesday at 7:30 at First Presbyterian Church, 116 S. Salisbury Street**

## Calendar

Feb 4 - Amateur Exam pre-regis. cutoff for Raleigh, Feb 16

Feb 6 - Regular RARS Meeting

Feb 9, 10 - QCWA QSO Party - CW
YL-OM Contest, Phone

Feb 10 - RARS Exciter copy deadline

Feb 16, 17 - ARRL Int'l DX Cont.-CW

Feb 17 - Elkin, NC Hamfest

Feb 20 - RARS Advisory Boary Meeting

Feb 22, 24 - CQWA 160 m Contest-Phone

Feb 24 - Winterfest, Vienna, VA

Mar 16, 17 - Charlotte NC Hamfest

Apr 8 - Cutoff for pre-regis. exams Raleigh, NC - Apr 14

Apr 14 - RARS HAMFEST with exams

May 11, 12 - ARRL League Planning meeting at Raleigh, NC